

## Starting R

R may be started from the Start Menu or from the Desktop icon. An important aspect in using R is to keep different projects on which you are working separated. We recommend that a separate folder be setup for each project. To start R for the first time in a project:

1. Place a copy of the Desktop R in the project folder.
2. Right click on the R icon in the folder.
3. Click on the Shortcut tab.
4. In the Start in dialog box, type the directory path for the project folder, e.g., C:\Documents\Project1
5. Start R by clicking on the R icon in the project folder. This will make R automatically reference that folder when accessing and creating data files.

After have done this the first time, simply click on the R icon to begin in that project folder.

## Installing and using R library: psurvey.analysis

1. Obtain a copy of psurvey.analysis\_1.1.zip. This may be obtained from Aquatic Monitoring web pages or from an email.
2. Start R program.
3. Under the "packages" menu, select "Install package from local zip file"
4. Browse to find psurvey.analysis\_1.1.zip and select it. Click on "Open".
5. R unzips the file and installs the package. The package is installed in a directory called 'psurvey.analysis', under the "library" subdirectory in the R software folder. This library subdirectory contains all other installed packages in the same structure.
6. Installation of the package only needs to be done once.
7. Each time R is started in a session, you have to separately "load" the package in order to access the functions and their help files.
8. To do this, click on "Packages" again and select "Load package". Then select "psurvey.analysis" from the menu. The package is loaded and ready for use.
9. After loading, the function Help pages are available through a browser interface. You can also view them by using the R help system, accessible from the menu bar.

## Text Editors and R

Using a text editor is recommended for use in conjunction with R. Placing all R commands used in a text file will document how the analysis was completed. If necessary, the text file can be re-executed to duplicate any result or to redo an analysis if data has changed.

Notepad is available with Windows as one option. Another option is to download NoteTab Light from <http://www.notetab.com/download.htm>. This is the free version.

Source: <http://www.epa.gov/nheerl/arm/techinfoanalysis.htm>  
Population Estimation Algorithms, posted 10/2002